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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/686,115	10/11/2000	Charu C. Aggarwal	YOR920000429US1	4940
7590	07/28/2004		EXAMINER	
William E. Lewis Ryan, Mason & Lewis, LLP 90 Forest Avenue Locust Valley, NY 11560			BOOKER, KELVIN E	
			ART UNIT	PAPER NUMBER
			2121	

DATE MAILED: 07/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Advisory Action</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/686,115	AGGARWAL ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Kelvin E Booker	2121

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 15 June 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

**PERIOD FOR REPLY** [check either a) or b)]

- a)  The period for reply expires 3 months from the mailing date of the final rejection.
- b)  The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  
ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1.  A Notice of Appeal was filed on \_\_\_\_\_. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2.  The proposed amendment(s) will not be entered because:
  - (a)  they raise new issues that would require further consideration and/or search (see NOTE below);
  - (b)  they raise the issue of new matter (see Note below);
  - (c)  they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
  - (d)  they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_.

3.  Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.
4.  Newly proposed or amended claim(s) \_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5.  The a) affidavit, b) exhibit, or c) request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6.  The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7.  For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_.

Claim(s) objected to: \_\_\_\_\_.

Claim(s) rejected: \_\_\_\_\_.

Claim(s) withdrawn from consideration: \_\_\_\_\_.

8.  The drawing correction filed on \_\_\_\_ is a) approved or b) disapproved by the Examiner.

9.  Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_.

10.  Other: \_\_\_\_\_.

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*Ramesh Patel*  
RAMESH PATEL 7/23/04  
PRIMARY EXAMINER  
*For Anthony Knight*

Continuation of 5. does NOT place the application in condition for allowance because:

As per independent claims 1, 11 and 21, the applicants argue in substance that the cited Knorr reference (Knorr et al., "Distance-Based Outliers: Algorithms and Applications") fail to disclose a technique for determining sets of dimensions and ranges in a data set which is sparse in density. The examiner respectfully disagrees. As noted in the final office action dated March 8, 2004, Knorr determines sets of dimensions and ranges during the process of determining distances between objects within a k-dimension dataset, whereby outliers are determined based upon analyzing a range query centered on the objects, and sets of dimensions corresponding to the ranges are determined.

As per claims 10, 20 and 30, the applicants argue in substance that the cited Sheikholeslami reference (Sheikholeslami et al., "WaveCluster: A Wavelet-Based Clustering Approach for Spatial Data in Very Large Databases") fails to disclose the identification of patterns in the data set which have abnormally low presence not due to randomness. The examiner respectfully disagrees. As noted in the final office action, Sheikholeslami focuses on identifying subclass patterns within spatial databases, respective of determined patterns whereby disregarding random outliers (e.g., noise).

Respective of the current sustained rejection, claims 1-3, 6-13, 16-23 and 26-30 are rejected, and claims 4, 5, 14, 15, 24 and 25 stand in objection.

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